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Chief,	AN I WILLIAM I WAS AN	RE: "43-3" — (CHECK "X" ONE)	_
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Air-Fed Incinerator	· · · · · · · · · · · · · · · · · · ·	NO INDEXING REQUIRED	.
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dated 17	Ame 1959		2
		fed incinerator is undergoing	į
Rowever, at this poi	nt we are optimistic and	tch, problems still do remain.	;
with a unit which wi	ll be switable for field	use. Attached is a list of	
THERETE TO THE GROST	ions in the reference dis	ger-cu.	_
2. During		re be mentioned a method un-	- 2
rate and short fiber	spiroying papers in a sai ed asbestos. If this des	fe drawer using sodium chlo- microset has progressed, we	
would like to have a	more detailed description	on of this system so we can	1
possibly amploy it i	n some of our situations.	•	
3. A copy of t	he pumpulat cutified "Des	struction of Classified Paper	į.
Naterials by the Sod requested by	ium Mitrate Nethod' is al during the	iso attached. This copy was conference held at headquarters.	2
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8 July 1959			
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## 8 July 1959

## DATA ON THE NEW AIR-YED INCINERATOR

- l. Listed below are answers to some of your questions on the new Air-Fed Incinerator:
- (a) The inner liner of the incinerator is fabricated from 16 gauge Type 304 stainless steel. The outer container is fabricated from an 11 gauge low carbon steel (boiler plate). A radiation shield of 24 gauge stainless steel is incorporated between the inner and outer liners. The screen or grid at the top is unde of Michroue 5 Mesh with a solid circular plate bettom to direct the gas flow around and out along the side of the grid screening.
- (b) The proposed life span of the incinerator is a rather difficult question to answer. There is a possibility the grid may wear out; however, this can be replaced with a minimum of effort in about 15 minutes using a speed wrench, hammer, and a pair of needle nose pliers. Other break downs may occur such as erosion wear on the stack, but these difficulties can not be foreseen at this time.
- (c) The design of the incinerator allows for the use of a gasoline generator as a power source for operation. It is necessary to have 220 Volt, 60 Cycle, 3 Phase current to sperate the motor blower. The present incinerator employs "Buffale Industrial Exhauster" Size 25, Type "Mi".
- (d) The temperatures recorded on the outside container ranged around 200°F maximum. During routine burning of 200 pounds per hour the bare hand can easily be placed against the outside surface. At increased rates of burning the outside surface over the door becomes hot, but the lower portions still remain relatively cool. The thermo-couple shown in the photograph was used during initial testing. It is no longer used and the hole was simply plugged.
- (e) Large quantities of soot do not result from burning large quantities of paper. This incinerator has the air nozzles or jets so placed to give an intimate mixture of air with the burning paper which gives a very high degree of burning leaving virtually little smoke or fly ash to come out the stack. It presently appears that the smoke or fly ash would pass any Smoke Restriction Laws in the world except those invoked in Los Angeles. To date most types of papers have been burned in this incinerator with the exception of large quantities of carbon paper and films. However, the tests proposed by our personnel will include these. It has been found that during burning, in order to obtain the sptimum results over extended periods of time and leadings, it is best to keep the papely level inside of the incinerator about 1-2 inches below the level of the uppermost jets. This can be done by observing the level during loading, or through the viewing port on the side.

- (f) There is no definite date for production of these incinerators. This will be decided as soon as the proper personnel have a chance to express their views. The cost of this device or its component parts will be dependent upon the number to be produced.
- (g) We do not feel that sodium nitrate would be a satisfactory aid to burning the last small portion of paper. Coke may be added prior to the loading of the paper as a terminal ignition prometer. Charcoal had been tried but it tends to burn sut too rapidly to aid at the end. The best precedure determined to date has been to keep the paper level down below the upperment row of jets during burning and near the end turn the air off and on several times. The main thing is to gain experience using this device and each time the amount of unburned paper becomes less.
- 2. The exhaust stack of the present Air-Fed Incinerator is fabricated to simply get the hot gases out of the building and into the atmosphere. The incinerator chimmey can be incorporated into a normal boiler chimmey; however, the area of the main chimmey, to serve both the incinerator and boiler, must then be at least equal to the sum of the areas of the cutlets of the two devices.
- $3_{\sigma}$  We presently do not have a satisfactory set of engineering drawings or specifications to send you.

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			DATE	25X
М	Chief,		RE: "43-3" — (CHECK "X" ONE)	
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	Air-Fed Incinerator		XX NO INDEXING REQUIRED	
N REQUIE			INDEXING CAN BE JUDGED BY QUALIFIED HQ. DESK ONLY	
NCE(S)	Paragraph 3	no 1050		257
	dated 17 Ju	ne 1909		25X
	1. The new air-f	ed incinerator has just	undergone its final check-	
	out and was received i	n Headquarter's area thing and demonstration by	s week where it is to be personnel. This	25X
	testing will begin as	soon as possible.	porbonness	ĺ
				!
	2. As you stated	in your dispatch, probl	ems still do remain. We	
	hope to have most of t	hese problems solved rel ese incinerators for fie	activery soon so that we	
	may start producing to	questions in the refere	nced dispatch. You may	
	inform that if w	e may be of any further	assistance we would be very	1 25X
	happy to cooperate.	-		
	2 5	wieit to Mandamentone	he mentioned a method	<u> </u>
	3. During	lestroying papers in a sa	fe drawer using sodium	25X
	chlorate and short fib	ered asbestos. If this	development has progressed,	
	we would like to have	a more detailed descript	ion of this system so we	
	can possibly employ it	in some of our situation	ens.	
		e pamphlet entitled "Dest	mustion of Clessified	
	4. A copy of the	Sodium Nitrate Method!	is also attached. This	
	copy was requested by	Doublam Harden	conferences held	1 25X
	at headquarters.			Ī
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